AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (original) A method of routing packets in a packet network, said packet network including a chain of packet nodes, said chain comprising first and second access nodes for communicating with one or more mobile nodes and one or more intermediate packet nodes, said one or more intermediate packet nodes providing a path interconnecting said first and second access nodes, said method comprising the steps of:

installing, in said intermediate packet nodes, first routing data defining a first routing path in one direction along said chain to a mobile node via said first access node and second routing data defining a second routing path in the opposite direction along said chain to said mobile node via said second access node;

operating each of said intermediate packet nodes to:

determine, on receipt of a packet destined for said mobile node, whether said packet is from another node on said chain or not; and

a) if the packet is determined to be from a node not on said chain, copying the packet and routing said copy along one of said routing paths and routing said packet along the other of said routing paths; and

b) if the packet is determined to be from another node on said chain, route said packet along said chain only in the direction in which it is currently travelling.

2. (original) A method according to claim 1, wherein said packet (s) include (s) a unique address of the mobile node.

3. (currently amended) A method according to claim 1 ~~or 2~~, wherein said unique address is the same before and after a handover of the mobile node from the first access node to the second access node.

4. (original) A method according to claim 3 further comprising the steps of operating each node in the packet network:

a) to associate a routing value with said unique address;

b) responsive to the receipt of said packet at said node to forward said packet towards another node having a lower routing value associated with said unique address;

c) responsive to the creation of a wireless link between a mobile node having said unique address and said node to reduce said routing value associated with said unique address to a lower value than that associated with said unique address by the other nodes in said network.

5. (currently amended) A method according to claim 3 ~~or 4~~, wherein said first routing data are installed prior to the handover of said mobile node from said first access node to said second access node.

6. (currently amended) A method according to ~~any of claims 3 to 5~~ claim 3, wherein said second routing data include data indicating that said second routing data relates to the handover of said mobile node from said first access node to said second access node.

7. (currently amended) A method according to ~~any preceding claim~~ claim 1, wherein said second routing data are installed in response to a routing control message generated at said second access node and transmitted to said first access node.

8. (currently amended) A method according to ~~any preceding claim~~ claim 1, wherein said first access node and said second access node are wireless access nodes and wherein said packets are sent to and received from said mobile node via a wireless transmission system.

9. (original) A packet network including a chain of packet nodes, said chain comprising:

first and second access nodes for communicating with one or more mobile nodes; and

one or more intermediate packet nodes providing a path interconnecting said first and second access nodes ; said intermediate packet nodes having installed therein first routing data defining a first routing path in one direction along said chain to a mobile node via said first access node and second routing data defining a second routing path in the other direction along said chain to said mobile node via said second access node each intermediate packet node being arranged in operation to determine, on receiving a packet destined for said mobile node, whether said packet is from another node on said chain or not and

a) if the packet is determined to be from a node not on said chain, copying the packet and routing said copy along one of said routing paths and routing said packet along the other of said routing paths; and

b) if the packet is determined to be from another node on said chain, route said packet along said chain only in the direction in which it is currently travelling.

10. (original) A packet node for use in a packet network according to claim 10.

11. (currently amended) A digital data carrier carrying a program of instructions executable by processing apparatus to perform the method steps as set out in ~~any one of claims 1 to 10~~ claim 1.